

## REMARKS/ARGUMENTS

This paper responds to the Office Action of November 21, 2003. The shortened statutory period is extended to run through May 21, 2004, and thus this paper is timely.

Claims 1-81 are now pending, a total of 81 claims. Claims 1, 16 and 67 are independent.

Applicant respectfully requests reconsideration of the application.

The amendments to the claims merely add a redundant statement of a limitation that already existed: that “profile information” relates to profiling (as that term is understood in the art, *see, e.g.*, the title of Lewchuck ’363), and is not conventional address translation information that relates solely to virtual memory management and address translation. This amendment has no effect on the scope of the claims.

### I. Status of Previous Papers

Formal drawings and a Preliminary Amendment were submitted December 28, 2000.

However, the Preliminary Amendment and Formal Drawings have not been acknowledged.

- For the Examiner’s convenience and ready reference, a replacement copy of the December 2000 Preliminary Amendment is enclosed herewith. I certify that this Preliminary Amendment was deposited with the United States Postal Service on December 28, 2000 as First Class Mail in an envelope with sufficient postage addressed to The Commissioner for Patents, Washington D.C. 20231, and is entitled to entry as of that date, pursuant to 37 C.F.R. § 1.8.
- Applicant requests confirmation that this Preliminary Amendment is entered.
- Applicant requests confirmation that formal drawings were received in or around December 2000, and entered.

### II. Claim 1

Claim 1 is discussed in paragraph 4 of the Office Action. Claim 1 recites as follows:

1. A method, comprising:

executing a program in a logical address space of a computer, with an address translation circuit translating address references generated by the program from the program’s logical address space to the computer’s physical address space;

recording profile information that records physical memory addresses referenced during an execution interval of the program, the profile information

being distinct from address translation information for use by the address translation circuit.

Lewchuck '363 does not show the “profile information that records physical memory addresses” recited in claim 1.

The indicated portions of Lewchuck '363 (col. 5, lines 30-35, 55-65 and col. 6, lines 33-40) show recording logical addresses. Indeed, Lewchuck '363 expressly states that “the addresses within the profile are linear addresses (i.e., addresses which have not been address translated to a physical address in memory)” (col. 4, line 66 to col. 5 line 1, emphasis supplied). At col. 5, lines 1-4, lines Lewchuck '363 explains why use of physical addresses would defeat the purpose for his invention.

The only physical addresses mentioned in these portions of Lewchuck '363 relate to memory management, not to information “recorded” in the profiling information.

Lewchuck never relates “profiling information” and “physical addresses” as recited in claim 1. Indeed, the Office Action itself notes that col. 5, lines 30-35 show only “address translation” information containing physical information, not “profile information [recording] physical memory addresses” as recited in claim 1.

Claims 16 and 67 are patentable for similar reasons.

Dependent claims 2-15, 17-66 and 68-81 are patentable with the independent claims discussed above. In addition, the dependent claims recite additional features that further distinguish the art.

### **III. The Abstract**

Applicant notes that there is no requirement that the Abstract use complete sentences. Indeed, examples (1) and (2) of the “Sample Abstracts” at MPEP § 608.01(b) both feature incomplete sentences.

In view of these remarks, Applicant respectfully submits that the application is in condition for allowance, and requests that the application be passed to issue in due course. The Examiner is urged to telephone Applicant's undersigned counsel at the number noted below if it

will advance the prosecution of this application, or with any suggestion to resolve any condition that would impede allowance. Enclosed is Petition for Extension of Time for three months. In the event that any further extension of time is required, Applicant petitions for that extension of time required to make this response timely. Kindly charge any additional fee, or credit any surplus, to Deposit Account No. 23-2405, Order No. 114596-06-4003.

Respectfully submitted,

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Dated: May 20, 2004

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